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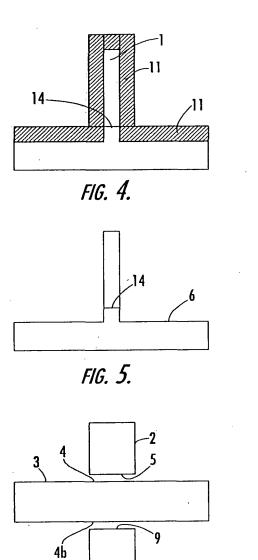


FIG. 6.

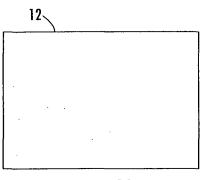


FIG. 4A. (PRIOR ART)

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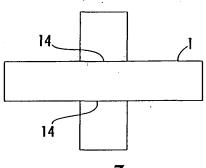


FIG. 7.

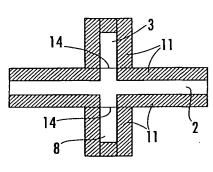


FIG. 8.

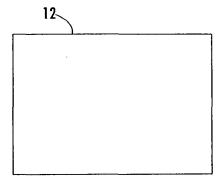


FIG. 8A. (PRIOR ART)

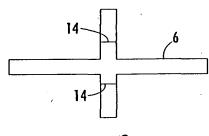
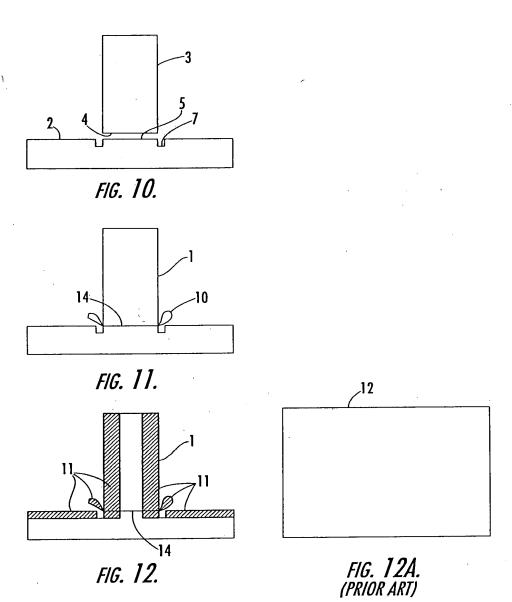


FIG. 9.





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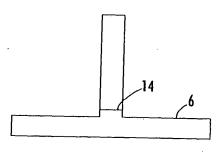


FIG. 13.

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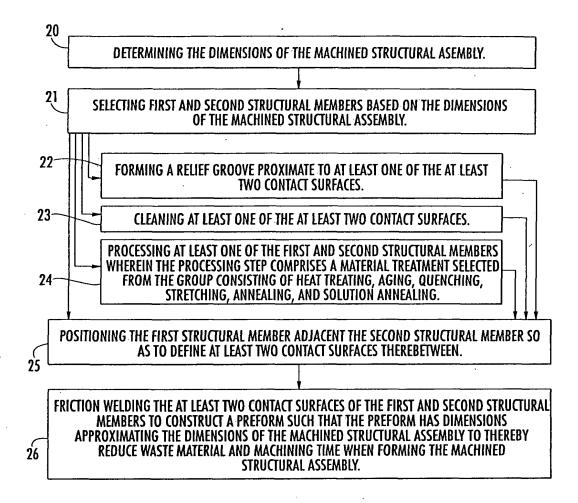


FIG. 14.

Title: Preforms For Forming Machined Structural Assemblies Inventor(s): Jeremiah E. Halley; Kevin T. Slattery

Application No: To be assigned Atty Dkt No: 38190/266715

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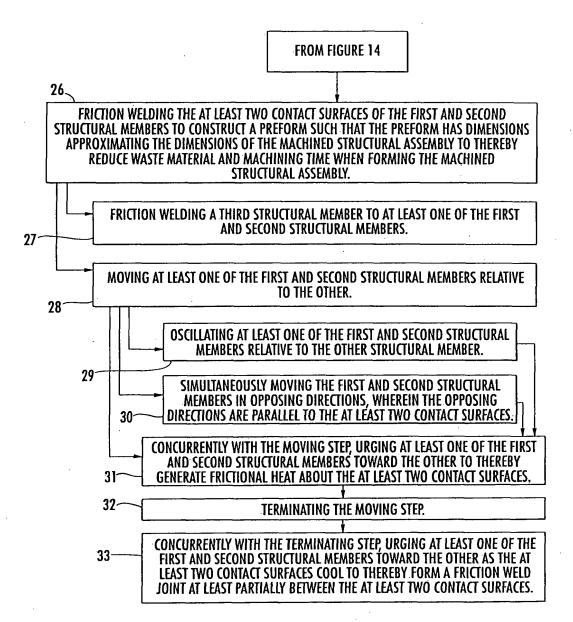
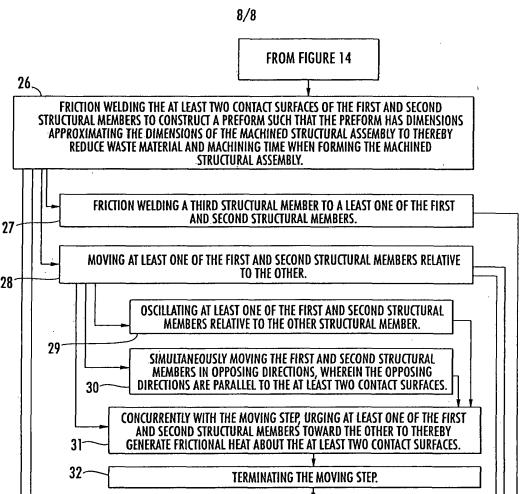


FIG. 14A.

Title: Preforms For Forming Machined Structural Assemblies Inventor(s): Jeremiah E. Halley; Kevin T. Slattery

Application No: To be assigned Atty Dkt No: 38190/266715



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MATCHING THE PREFORM TO REMOVE EXCESS MATERIAL FROM THE PREFORM TO FORM THE MACHINED STRUCTURAL ASSEMBLY HAVING THE PREDETERMINED DIMENSIONS.

> MACHINING AT LEAST A PORTION OF THE FRICTION WELD JOINT JOINING THE FIRST AND SECOND STRUCTURAL MEMBERS.

> > FIG. 15.

CONCURRENTLY WITH THE TERMINATING STEP, URGING AT LEAST ONE OF THE FIRST AND SECOND STRUCTURAL MEMBERS TOWARD THE OTHER AS THE AT

LEAST TWO CONTACT SURFACES COOL TO THEREBY FORM A FRICTION WELD JOINT AT LEAST PARTIALLY BETWEEN THE AT LEAST TWO CONTACT SURFACES.

PROCESSING THE PREFORM BEFORE THE MACHINING STEP, WHEREIN THE PROCESSING STEP COMPRISES A MATERIAL TREATMENT SELECTED FROM THE GROUP CONSISTING OF HEAT TREATING, AGING, QUENCHING, STRETCHING, ANNEALING, AND SOLUTION ANNEALING.